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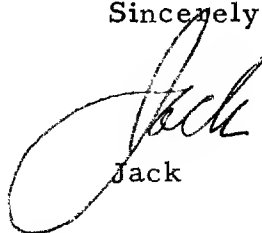
CMCC Doc. No. 151x5.1350
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26 January 1959

Dear Dan:

Attached is Field Engineering Progress Report No. 2 (CMCC Doc. No. 163x5.96). This report covers the field engineering services furnished under Contract A-101 for the period of 1 October to 30 November 1958. We are sending you three (3) copies of this report in the event you would like Sid, Commo, or others to review the activities it covers.

Sincerely,


Jack

Enclosures:

CMCC Doc. No. 163x5.96 - Copies 1, 2 and 3

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PROGRESS REPORT NO. 2

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FIELD ENGINEERING SERVICES FOR
CONTRACT A-101

1 October through 30 November 1958

CMCC Document No. 163x5.96

Copy 1 of 10 Copies

9 January 1959

(This document contains a total of 10 sheets,
including this title page.)

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a.

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1. General Summary

a. This report describes the in-plant field-engineering activities in support of Contract A-101, Requirements 1 and 3, and covers the period from 1 October through 30 November 1958. The activities are divided into four general categories: supervision, training, field modifications, and general field support. The last section of the report is a cost summary for the period 1 July through 30 November 1958. (The cost summary for the period 1 July through 30 September was not available at the time of publication of Progress Report No. 1 and is, therefore, included in this report.)

b. Management activity during the report period included evaluation, analysis and scheduling of all remaining work under Contract A-101. A number of reassignments of technical representatives were effected during the months of October and November, including assignment of a representative [REDACTED] (Requirement 4). Engineers and technicians in training at the plant are scheduled for assignments to Laughlin AFB, [REDACTED] and the Customer C Data Reduction Center installation and training program.

c. Training-aid schematic diagrams for the C rack (Analyzing Playback Equipment) are nearing completion, and the first training pamphlet, covering tape recorder principles, is ready for printing. A total of seven Field Service Bulletins with modification kits were shipped to Customer A and/or Customer C depots during the report period. Corrective action was taken and formal replies were made to four Unsatisfactory Reports from Customer C. Flight tests of System 4, Serial 105, and environmental tests of Serial 106 were completed.

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2. Supervisory Activities

a. General and Administrative

Field Engineering management is participating in the evaluation, analysis and scheduling of all work remaining under Contract A-101, including research and development, production, and support services. This activity will continue into the next report period. Other management activities during the report period included drafting of basic recommendations for an improved repair-and-retrofit program, liaison with Customer A technical personnel on new project-work for which this contractor will supply field-engineering services, and preparation of a proposal for a time-and-materials contract covering field-engineering services during the first six months of 1959.

b. Personnel

No new Field Engineering personnel were hired during the two-month period covered by this report. The following reassignments were effected:

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c. Orientation and Technical Briefings

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3. Training

a. In-Plant Training Program

During the report period, one field engineer completed his in-plant training and reported for duty at Laughlin AFB. In-plant training of one technician will be completed early in January, and he will report to Del Rio during that month. One technician was relieved of his assignment at Detachment C in November and is in training at the factory pending reassignment to [REDACTED] 25X1A
[REDACTED] 25X1A Another technician completed his in-plant training in November and reported for duty [REDACTED] (Requirement 4). An informal lecture on theory of numbers was given to engineers and technicians in training in October.

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b. Training Aids

The first set of wall-chart training aids, consisting of partial and simplified schematics for the Analyzing Playback Equipment (C rack) is 60% complete. The second set, covering the Playback (A rack) and Duplicating (B₁, B₂ racks) Equipment is in preparation. The first technical pamphlet, covering general principles of tape recording, is ready for printing. A second pamphlet, on antennas and transmission lines, is in preparation. Customer C funding for distribution of the training aids to the ten Data-Reduction Centers was received during the report period.

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SECRET4. Field Modifications

a. Progress Report No. 1, dated 20 October 1958, described the new numbering system for Field Service Bulletins. The following is a list of service bulletins completed during the report interval.

<u>Bulletin No.</u>	<u>System</u>	<u>Customer</u>	<u>Purpose</u>
1-5	1	A	Provides interchangeability of B units between Systems 1 and 6. Changes MP No. of B unit to 12570.
1-6	1	A & C	Instructions for resoldering B-unit filament resistors with high-melting point solder.
S603-1			
4-10	4	A & C	Instructions for loading and unloading 800-foot film magazine.
M-1	Data Reduction System, M Rack	C	Changes capacitors to improve reliability of counter modules.

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b. The following is a list of Field Service Bulletins and modification kits shipped to customer depots during the report interval.

<u>Bulletin No.</u>	<u>System</u>	<u>Customer</u>	<u>Purpose</u>
2	4	A	For System 4 Test Set, Serial 100 only
4	4	A & C	Replacement of fuses in power-supply unit.

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<u>Bulletin No.</u>	<u>System</u>	<u>Customer</u>	<u>Purpose</u>
6	4	C	To improve stability of programmer unit, Serial 104 only.
7	4	C	To improve reliability of indicator unit, Serial 104 only.
1	Data Reduction System, G Rack	A & C	To correct wiring error, Serial 1, 2, 3, 5 and 6.
1-6	1	A	Resolder B-unit filament resistors.
1-4	1	C	Locking assembly for B-unit connectors.

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c. Design of the modification kit for the System 1 [REDACTED] has been completed and the necessary hardware was ordered from the airframe manufacturer. Laboratory investigations of the System 1 and System 3 interference with the AN/ARN-6 radio compass were completed during the report period, and prototype modification kits are now being tested in the field. Investigation of the interference in the [REDACTED] in System 4 is in progress.

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5. General Field Support

a. Technical Services

(1) Activities in this area include the engineering work involved in answering queries and solving special problems encountered in the field; procurement and shipment of special parts not available through normal channels; and processing and analysis of fault reports. These activities are handled on a day-to-day basis and a detailed description is beyond the scope of this report.

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(2) The bench-stock list for Customer A overseas field-detachments, described in the previous report, was completed and submitted to Customer A depot.

b. Special Projects

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c. Unsatisfactory Reports

The following UR's from Customer C were answered during the report interval:

<u>UR No.</u>	<u>Description</u>
58-897	Blowers for System 1 Test Set, Serial 518, 519, and 521, omitted because of shipping error.
58-673	1-kc crystal for B unit operating at too low frequency due to air leakage.
58-933	Lack of MP number for complete System 1 causing difficulty in filling out forms prior to each flight.
58-967	Lack of sufficient test equipment for System 1 information-amplifier units.

Satisfactory corrective action was taken on all of the above UR's.

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d. System 4 Environmental and Flight Tests (Customer C)

The environmental-test report for System 4, Serial 105, was completed during the report period (CMCC Document No. 162x5.4). Flight tests of Serial 105 were conducted at the test site during the period 13 October through 30 October 1958, with good results. The flight-test report was also published during the report interval (CMCC Document No. 162x5.5). Environmental tests for Serial 106 were nearing completion at the close of the report period. The test report will be published in late December or early January. No flight-test program is scheduled for Serial 106 since the flight tests on Serial 105 established validity of the environmental-test program.

6. Cost Summary

A summary of costs for Field Engineering Services under Contract A-101 for the period 1 July through 30 November 1958, is tabulated on the following page. The cost summary shows a balance of about \$59,000 at the close of the report period. It is estimated that a balance of \$40,000 or more will remain at the close of the contract period on 31 December 1958. A portion of these funds will be used to complete work in process at the close of the contract period. Most of the work in process consists of service bulletins and training aids that were not started until after the approval of the Field Engineering proposal. (Final approval by all customers was not received until 21 October 1958.) Any funds remaining after this work is completed will be credited to the A-101 contract.

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